

# CIKOinject PUR1

Smart Chemical Solutions

سيكو الشرق الأوسط  
MIDDLE EAST

One component, solvent free, polyurethane injection system ideally suitable for crack injection/water leaks in concrete and masonry structures. Reaction with water yields a semi-rigid polyurethane foam (slightly flexible). To be injected with a one-component pump. Use with 6 to 10% catalyst.

## HOW DOES CIKOinject PUR1 WORK?

Reaction with water yields a polyurethane semi-rigid foam (slightly flexible). The formation of CO<sub>2</sub> makes the foam penetrate very well into the cracks. The reaction speed can be adapted easily by varying the accelerator or catalyst content from 6% to 10%. The more catalyst is added, the faster the reaction velocity. The end product neither shrinks nor swells. A good compression strength is obtained in a very short time. Free expansion: +4000%.

## APPLICATION PRESCRIPTIONS

Shake the catalyst well. Mix the resin and the accelerator in a ratio of 6% to 10% in function of the desired reaction speed. For injection: use packers and a 1 component pump (manual or automatic). CIKOinject PUR1 is very hygroscopic and packed under dry atmosphere. Use opened containers as soon as possible or recap under dry nitrogen. Pumps should be cleaned with CIKOSOL, a cleaning product specially developed for cleaning of polyurethane injection pumps.

## TECHNICAL DATA

### Physical characteristics of the uncured polyurethane prepolymer

Subject	Value	Norm
Density	1,158 g/cm <sup>3</sup>	EN ISO 2811-2:2002
Viscosity	96 mPa.s	EN ISO 3219:1994
Isocyanate	18,1 M.-%	EN 1242:2006
Flash point	> 150 °C	
Colour	Brown	

### Physical characteristics of the catalyst

Subject	Value	Norm
Density	0,889 g/cm <sup>3</sup>	EN ISO 2811-2:2002
Viscosity	21 mPa.s	EN ISO 3219:1994
Flash point	> 150 °C	
Colour	Transparent	

## REACTION TIME

Quantity of catalyst	Reaction	Polymerisation
6%	15 seconds	70 seconds
8%	12 seconds	55 seconds
10%	9 seconds	45 seconds

Indication at 20 °C. Free expansion: 4000% of starting volume.

## PACKAGING

Standard packaging:

- 25 kg resin and 2,5 litre catalyst  
Pallet: 600 kg resin and 60 litres of catalyst
- 10 kg resin and 1 litre catalyst  
Pallet: 750 kg resin and 75 litres of catalyst

Other type of packaging available on request.

## STORAGE

To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not exceeding 30°C or not lower than 10°C. The maximum shelf life is one year. All partly used drums should be covered by nitrogen and resealed to prevent the ingress of moisture.

## SAFETY AND HEALTH PRECAUTIONS

Do not breathe dust/fume/gas/mist/vapours/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves/clothing and eye/face protection.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**If on skin or hair:** Take off immediately all contaminated clothing. Rinse skin with water/shower.

For more information, consult the safety data sheet.